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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

QC ABSTRACT

NAME OF WORK: Pothole filling to Roads in Ward No. 05 (Jakkur) Surrounding area Byatarayanapura Sub Division.

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	WMM	Sieve Analysis	One Test		1	1
		Impact Value	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
2	BC	SIEVE ANALYSIS	One Test		1	1
		STRIPPING VALUE	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		IMPACT VALUE	One Test		1	1
		Specific gravity	One Test		1	1
		Water Absorption	One Test		1	1
		Marshal Stability	One Test		1	1
		Marshal flow	One Test		1	1
		Percent air Voids	One Test		1	1
		Percent Voids in mineral	One Test		1	1
		Percent Voids filled with Bitumen	One Test		1	1
		Density	One Test		1	1
		Gradation	One Test		1	1
3	BITUMEN	Ductility	One Test		1	1
		Softening Point	One Test		1	1
		Penetration	One Test		1	1
		Flash Point	One Test		1	1
		Fire Point	One Test		1	1
4	TACK COAT	Rate of spread	One Test		1	1

ನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು ಅಧಿಕಾರಿಗಳು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-28

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Certificate No.: TC-5548

TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2022-03-25-34**	**Date: 11-11-21**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.	
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.	
Project Name	:	Pothole filling to Roads in Ward No. 05 (Jakkur) Surrounding area Byatarayanapura Sub Division.	
Agency	:	Sri. Samba Shiva, No:04, 3rd Main Road, Chamundeshwari L/O, Vidyranyapura, Bangalore - 560097	
Customer Reference	:	BBMP/EE/BTP/WO/36/2021-22	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	09-11-21	
Type of Mix	:	WMM (Wet Mix Macadam)	
Date of Test	:	09-11-21	
Oven Dry Weight	:	11000	Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	318	318	2.9	97.1	95-100
22.4	2265	2583	23.5	76.5	60-80
11.2	2185	4768	43.3	56.7	40-60
4.75	2304	7072	64.3	35.7	25-40
2.36	1635	8707	79.2	20.8	15-30
0.6	639	9346	85.0	15.0	8-22
0.075	1342	10688	97.2	2.8	0-5

* The results obtained are satisfactory as per standard requirements.

Note:-

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R. KARTHIK RECHAN
Authorized Signatory
Quality Manager

Page 1/1
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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part I) 1963 (RA 2007)

Lab ID	:	**CP-RW-2022-03-25-34** **Date: 11-11-21**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Pothole filling to Roads in Ward No. 05 (Jakkur) Surrounding area Byatarayanapura Sub Division.
Agency	:	Sri. Samba Shiva, No.01, 3rd Main Road, Chamundeshwari L/O, Vidyaranyapura, Bangalore - 560097
Customer Reference	:	BBMP/EE/BTP/WO/36/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	09-11-21
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of Test	:	09-11-21

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	12.8%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	12.5%	
Combined Flakiness and Elongation Index for WMM	25.3%	

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Certificate No.: TC-5548

TEST RESULTS OF GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2007)

Date: 25-11-21

Lab ID	:	CP-RW-2022-03-25-34
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Pothole filling to Roads in Ward No. 05 (Jakkur) Surrounding area Byatarayanapura Sub Division.
Agency	:	Sri. Samba Shiva, No:04, 3rd Main Road, Chamundeshwari L/O, Vidyranyapura, Bangalore - 560097
Customer Reference	:	BBMP/EE/BTP/WO/36/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-11-21
Type of Mix	:	BC-Plant (Bituminous Concrete)
Date of Test	:	23-11-21
Oven Dry Weight	:	5000 Grams

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-17(grading-2)
19	0	0	0.0	100.0	100
13.2	89	89	1.8	98.2	90-100
9.5	702	791	15.8	84.2	70-88
4.75	895	1686	33.7	66.3	53-71
2.36	587	2273	45.5	54.5	42-58
1.18	492	2765	55.3	44.7	34-48
0.6	503	3268	65.4	34.6	26-38
0.3	528	3796	75.9	24.1	18-28
0.15	458	4254	85.1	14.9	12-20
0.075	350	4604	92.1	7.9	4-10
PAN	396	5000	100	0.0	0

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Certificate No.: TC-5548

TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID	:	**CP-RW-2022-03-25-34** **Date: 26-11-21**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Pothole filling to Roads in Ward No. 05 (Jakkur) Surrounding area Byatarayanapura Sub Division.
Agency	:	Sri. Samba Shiva, No:04, 3rd Main Road, Chamundeshwari L/O, Vidyranyapura, Bangalore - 560097
Customer Reference	:	BBMP/EE/BTP/WO/36/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-11-21
Type of Mix	:	BC(Bitumenous Concrete)
Date of Test	:	23-11-21

Type of Binder	:	60/70
% of Binder Used	:	5.0%
Weight of Aggregate	:	200.0 gm
Weight of Binder	:	10.0 gm
Temperature of water bath	:	40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	98.5	1.5	98.3	Minimum Retained Coating 95%
2	98.5	1.5		
3	98.0	2.0		

* The results obtained are satisfactory as per standard requirements.

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PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR BITUMINOUS CONCRETE

Lab ID	:	**CP-RW-2022-03-25-34** **Date: 26-11-21**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Pothole filling to Roads in Ward No. 05 (Jakkur) Surrounding area Byatarayanapura Sub Division.
Agency	:	Sri. Samba Shiva, No:04, 3rd Main Road, Chamundeshwari L/O, Vidyranyapura, Bangalore - 560097
Customer Reference	:	BBMP/EE/BTP/WO/36/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-11-21
Type of Mix	:	BC (Bituminous Concrete)
Date of Test	:	23-11-21

Table 500-16 : Physical Requirements fo Coarse Aggregate for Bituminous Concrete

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	12.4	Combined Flakiness & Elongation Index for BC is Maximum 35%	IS:2386 Part I
	Elongation Index	11.8		
Strength	Aggregate Impact Value	22.1	Maximum 24%	IS:2386 Part IV
Specific gravity	Specific gravity	2.68	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.21	Maximum 2%	IS:2386 Part III

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Certificate No.: TC-5548

TESTS RESULTS ON STABILITY OF MIX

Lab ID : **CP-RW-2022-03-25-34** **Date: 26-11-21**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Pothole filling to Roads in Ward No. 05 (Jakkur) Surrounding area Byatarayanapura Sub Division.

Agency : Sri. Samba Shiva, No:04, 3rd Main Road, Chamundeshwari L/O, Vidyranyapura, Bangalore - 560097

Customer Reference : BBMP/EE/BTP/WO/36/2021-22

Source of Sample : Hot Mix Plant, Bangalore

Sample Condition : Satisfactory

Date of Receipt : 23-11-21

Type of Mix : BC (Bituminous Concrete)

Date of Test : 23-11-21

The results of the tests conducted on the Bituminous Concrete mix sample are as follow

Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	11.14	11.13	10KN(min)
2	Marshal flow at 60°C, mm	3.56	3.54	2-4
3	Percent air Voids	4.85	4.75	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.26	14.27	13-15
5	Percent Voids filled with Bitumen(VFB %)	71.83	71.65	65-75
6	Density, g/cc	2.25	2.26	–

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID : CP-RW-2022-03-25-34 **Date: 01-12-21**

Customer : Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore

Address : Byatarayanapura Sub Division, BBMP, Bangalore.

Project Name : Pothole filling to Roads in Ward No. 05 (Jakkur) Surrounding area Byatarayanapura Sub Division.

Agency : Sri. Samba Shiva, No.04, 3rd Main Road, Chamundeshwari L/O, Vidyranyapura, Bangalore - 560097

Customer Reference : BBMP/EE/BTP/WO/36/2021-22

Source of Sample : Sample supplied by Agency

Date of Receipt : 30-11-21

Type of Mix : BC (Bituminous Concrete)

Date of Test : 30-11-21

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	468	470
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	6.40	6.00
4	Average percentage	%	6.2	

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Lab ID : CP-RW-2022-03-25-34

Date: 01-12-21

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 468

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	8	8	1.7	98.3	90-100
9.5	69	77	16.5	83.5	70-88
4.75	112	189	40.4	59.6	53-71
2.36	86	275	58.8	41.2	42-58
1.18	28	303	64.7	35.3	34-48
0.6	11	314	67.1	32.9	26-38
0.3	48	362	77.4	22.6	18-28
0.15	45	407	87.0	13.0	12-20
0.075	55	462	98.7	1.3	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 470

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	4	4	0.9	99.1	90-100
9.5	62	66	14.0	86.0	70-88
4.75	119	185	39.4	60.6	53-71
2.36	88	273	58.1	41.9	42-58
1.18	26	299	63.6	36.4	34-48
0.6	11	310	66.0	34.0	26-38
0.3	46	356	75.7	24.3	18-28
0.15	47	403	85.7	14.3	12-20
0.075	56	459	97.7	2.3	4-10

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Certificate No.: TC-5548

TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID	:	CP-RW-2022-03-25-34	Date: 07-12-21
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore	
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore	
Project Name	:	Pothole filling to Roads in Ward No. 05 (Jakkur) Surrounding area Byatarayanapura Sub Division	
Agency	:	Sri. Samba Shiva, No 04, 3rd Main Road, Chamundeshwari L/O, Vidyaranyapura, Bangalore - 560097	
Customer Reference	:	BBMP/EE/BTP/WO/36/2021-22	
Source of Sample	:	Sample supplied by Agency	
Date of Receipt	:	06-12-21	
Type of Mix	:	BC (Bituminous Concrete)	
Date of Test	:	06-12-21	

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	468	469
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	6.40	6.20
4	Average percentage	%	6.3	

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

Lab ID : CP-RW-2022-03-25-34 **Date: 07-12-21**

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 468

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	6	6	1.3	98.7	90-100
9.5	75	81	17.3	82.7	70-88
4.75	116	197	42.1	57.9	53-71
2.36	62	259	55.3	44.7	42-58
1.18	23	282	60.3	39.7	34-48
0.6	11	293	62.6	37.4	26-38
0.3	49	342	73.1	26.9	18-28
0.15	46	388	82.9	17.1	12-20
0.075	55	443	94.7	5.3	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 469

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	4	4	0.9	99.1	90-100
9.5	62	66	14.1	85.9	70-88
4.75	118	184	39.2	60.8	53-71
2.36	83	267	56.9	43.1	42-58
1.18	26	293	62.5	37.5	34-48
0.6	11	304	64.8	35.2	26-38
0.3	48	352	75.1	24.9	18-28
0.15	52	404	86.1	13.9	12-20
0.075	56	460	98.1	1.9	4-10

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ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-21

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TEST REPORT ON BITUMEN

Lab ID	:	**CP-RW-2022-03-25-34** **Date: 18-11-21**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Pothole filling to Roads in Ward No. 05 (Jakkur) Surrounding area Byatarayanapura Sub Division.
Agency	:	Sri. Samba Shiva, No:04, 3rd Main Road, Chamundeshwari L/O, Vidyranyapura, Bangalore - 560097
Customer's Reference	:	BBMP/EE/BTP/WO/36/2021-22
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-11-21
Sample Type	:	Bitumen
Reference to BIS codes	:	IS: 1201-1220(1978) (Reaffirmed-2004)
Date of Test	:	16-11-21

Test Results

Sl.no	Name of Test	Result	Requirements as per IS:73-2013
1	Penetration at 25°C , in 1/10th mm	68	60 to 70
2	Softening Point, °C	51.5	Min. 40°C
3	Ductility, cm	96	Min. 75cm
4	Flash point, °C	248	Min. 220°C
	Fire point, °C	265	

* The results obtained are satisfactory as per standard requirements.

Note:-
The results pertain to the samples received and tested.
All information Furnished by Customer/ Representative
Any correction in the report will make this report invalid.
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

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CIVIL Pro Sig..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

Certificate No.: TC-5548

DETERMINATION OF RATE OF SPREAD TACK COAT

Lab ID	:	**CP-RW-2022-03-25-34** **Date: 10-12-21**
Customer	:	Assistant Executive Engineer, Byatarayanapura Sub Division, BBMP, Bangalore.
Address	:	Byatarayanapura Sub Division, BBMP, Bangalore.
Project Name	:	Pothole filling to Roads in Ward No. 05 (Jakkur) Surrounding area Byatarayanapura Sub Division.
Agency	:	Sri. Samba Shiva, No:04, 3rd Main Road, Chamundeshwari L/O, Vidyranyapura, Bangalore - 560097
Customer Reference	:	BBMP/EE/BTP/WO/36/2021-22
Sample Condition	:	Satisfactory
Date of Receipt	:	09-12-21
Type of Mix	:	Tack coat
Date of Test	:	09-12-21

Sl.No	Determination	Unit	TEST 1	TEST 2
1	Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
2	Area of Plate (a)	Sq.mtr	0.09	0.09
3	Initial Wt of empty Plate (b)	Kg	0.748	0.748
4	Final weight of plate after application of tack Coat (c)	Kg	0.769	0.770
5	Weight of tack Coat (d=c-b)	Kg	0.021	0.022
6	Rate of spread of tack coat	Kg/sq.m	0.233	0.244
7	Average	Kg/sq.m	0.239	
8	Specified Limit	Kg/sq.m	0.250 Kg/sq.m	

* The results obtained are satisfactory as per standard requirements.

Note:-

The results pertain to the samples received and tested.
All information Furnished by Customer/ Representative
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CIVIL PRO Sig..... Date..... BANGALORE

ARTHIK RECHAN
Authorized Signatory
Quality Manager

End of Report

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